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AUGUESLD 1002S(100W+100W)

AUGUESLD 1002S 2.0 Channel Bluetooth Amplifier Board User Manual

Model: 1002S (100W+100W)

1. INTRODUCTION

Thank you for choosing the AUGUESLD 1002S 2.0 Channel Bluetooth Amplifier Board. This high-performance amplifier board is designed to deliver clear and powerful stereo audio, featuring dual TPA3116D2 chips for robust output. With multiple input options, it offers versatile connectivity for various audio sources. This manual provides detailed instructions for setup, operation, and maintenance to ensure optimal performance and longevity of your amplifier board.

2. PRODUCT OVERVIEW

The AUGUESLD 1002S is a compact yet powerful 2.0 channel stereo amplifier board. It integrates Bluetooth connectivity, USB audio input, and a 3.5mm AUX input, making it suitable for a wide range of applications from DIY audio projects to upgrading existing sound systems.

2.1 Key Features

- **Dual TPA3116D2 Chips:** Ensures stable and high-fidelity stereo dual-channel output with peak power up to 100W + 100W.
- **Wide Voltage Input:** Operates efficiently with a DC input range of 9-24V.
- **Multiple Audio Inputs:** Supports Bluetooth, 3.5mm AUX, USB sound card, and USB flash drive inputs for broad compatibility.
- **Versatile Format Support:** When using a USB flash drive, it supports MP3, FLAC, WAV, and APE formats. (Note: FLAC bitrate should be within 1400kbps, WAV sampling rate within 44100Hz. USB flash drive format must be FAT32 and ≤ 32GB).
- **Enhanced Design:** Features an upgraded DC socket for spark-free power connection and an input mode indicator light for clear status display.

2.2 Component Identification

Refer to the diagram below for a detailed view of the amplifier board's components and their functions.

DUAL TPA3116D2 CHIP

- 1.Click:Play / Pause
- 2.Two Clicks:Next Song
- 3.Three Clicks:Previous song
- 4.Four Clicks:Switch Mode
- 5.Five Clicks:Factory Reset
- 6.Long Press:Power On/Standby

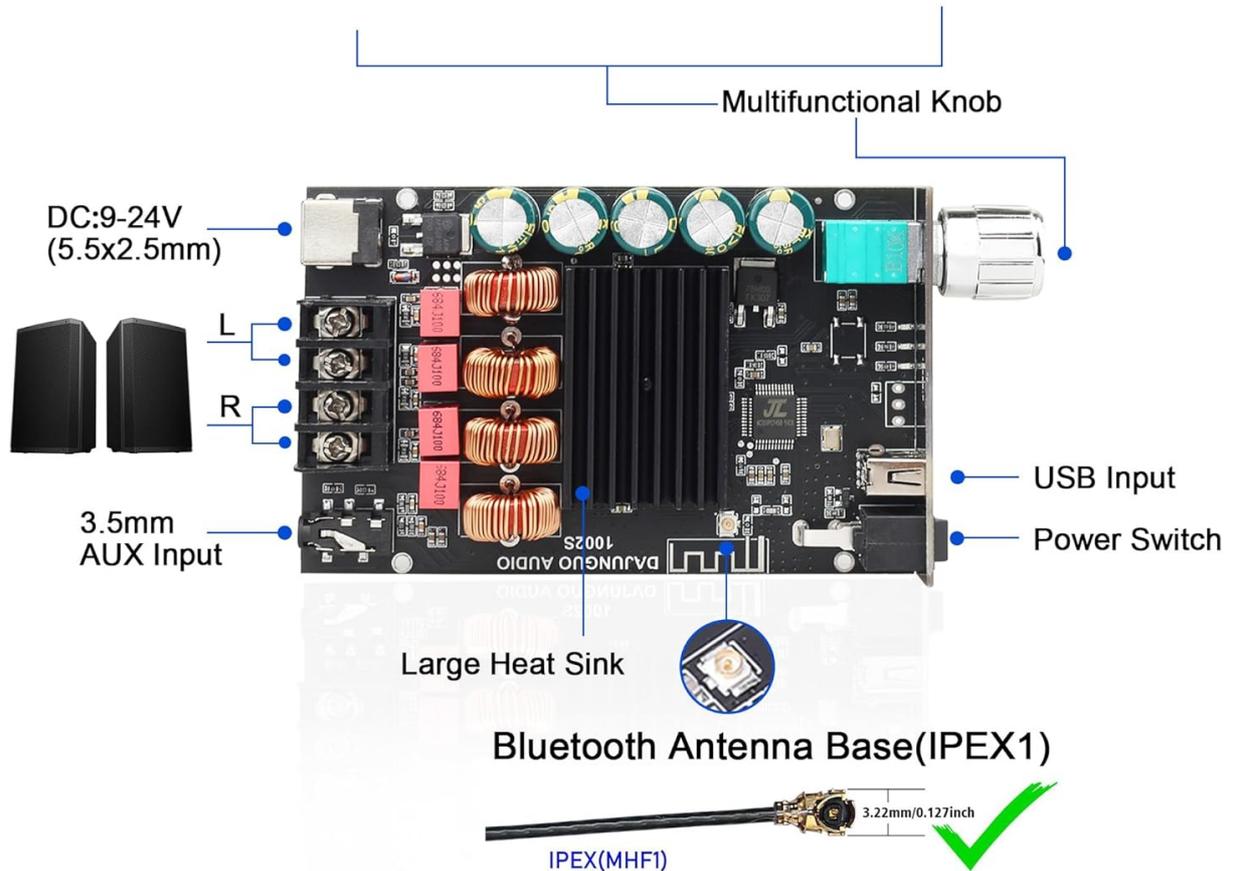


Figure 2.1: Component layout of the 1002S Amplifier Board, highlighting the DC input, 3.5mm AUX input, USB input, power switch, multifunctional knob, large heat sink, and Bluetooth antenna base.



Figure 2.2: Illustration of the multiple input modes (Bluetooth, 3.5mm AUX, USB) and the input mode indicator lights on the amplifier board.

3. PACKAGE CONTENTS

Upon opening the package, please verify that all items are present and in good condition:

- 1 x AUGUESLD 1002S Amplifier Board
- (Additional accessories may vary based on specific product bundles)

4. SETUP INSTRUCTIONS

4.1 Power Connection

Connect a DC power supply (9-24V) to the upgraded DC socket on the amplifier board. Ensure the plug specification is 5.5x2.5mm. If a 5.5x2.5mm plug is not available, a DC terminal can also be used. The upgraded socket design helps prevent sparks during connection.



Figure 4.1: Close-up of the upgraded DC socket, designed for spark-free power connection.

4.2 Speaker Connection

Connect your passive speakers to the speaker output terminals (L and R) on the amplifier board. Ensure correct polarity (+/-) for each speaker.

4.3 Audio Input Connection

Choose your preferred audio input method:

- **Bluetooth Input:** Power on the amplifier board. The input mode indicator light will show the current mode. Search for the amplifier's Bluetooth name on your device (e.g., smartphone, tablet) and pair. You can customize the Bluetooth name and set a password if desired.
- **3.5mm AUX Input:** Connect an audio source (e.g., MP3 player, TV, computer) to the 3.5mm AUX input jack using a standard 3.5mm audio cable.
- **USB Sound Card Input:** Connect the amplifier board to a computer via a USB cable. The computer should recognize it as an audio output device.
- **USB Flash Drive Input:** Insert a FAT32 formatted USB flash drive (max 32GB) containing supported music files (MP3, FLAC, WAV, APE) into the USB port.

5. OPERATING INSTRUCTIONS

5.1 Power On/Off

Use the power switch on the board to turn the amplifier on or off.

5.2 Multifunctional Knob Operation

The multifunctional knob controls various playback and mode settings:

- **1 Click:** Play / Pause
- **2 Clicks:** Next Song
- **3 Clicks:** Previous Song
- **4 Clicks:** Switch Input Mode
- **5 Clicks:** Factory Reset
- **Long Press:** Power On / Standby

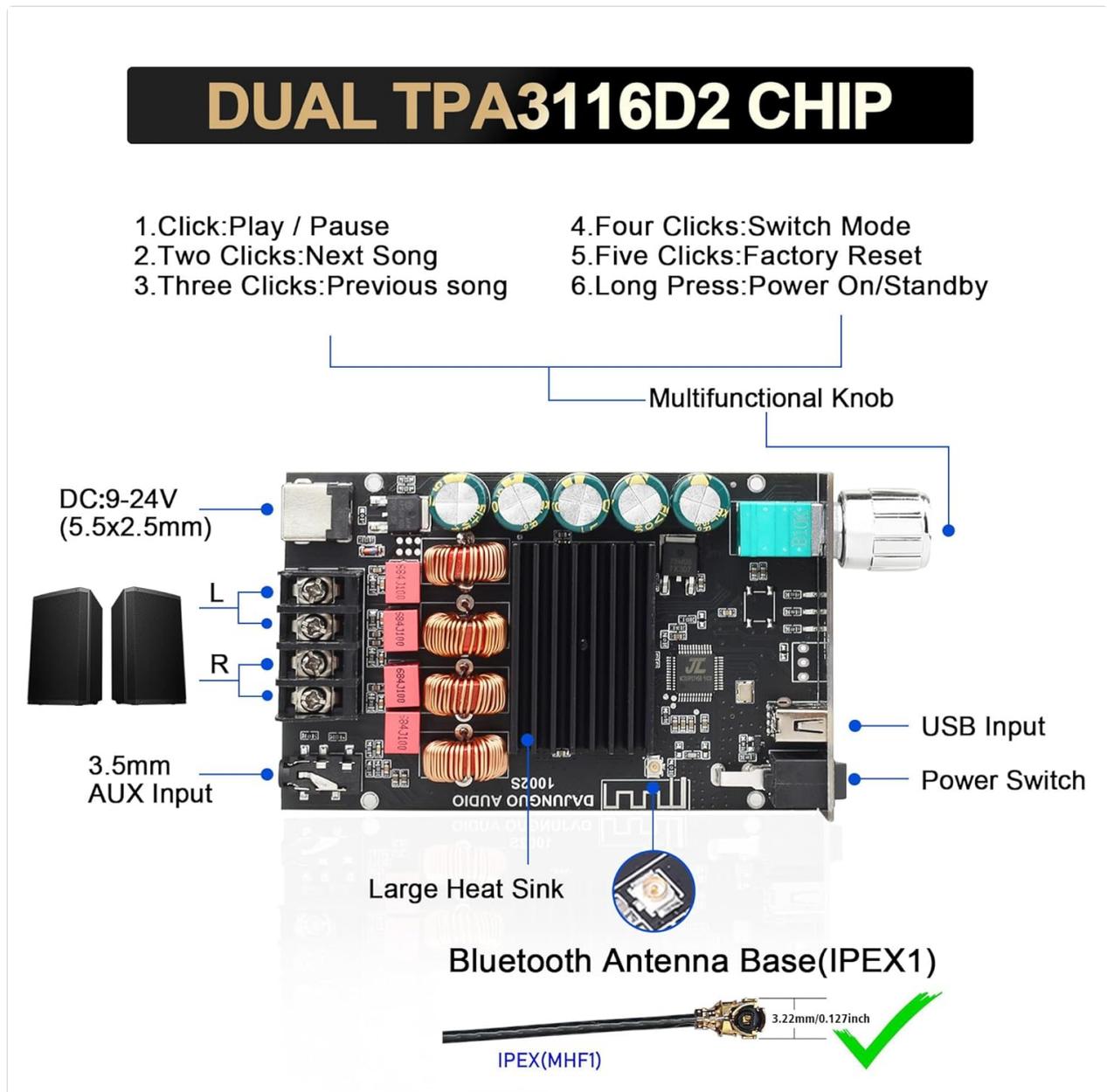


Figure 5.1: Detailed view of the multifunctional knob and its various click functions for controlling playback and input modes.

5.3 USB Flash Drive Music Playback

When a USB flash drive is inserted, the amplifier will automatically detect and play music. You can navigate through your music list using the multifunctional knob.

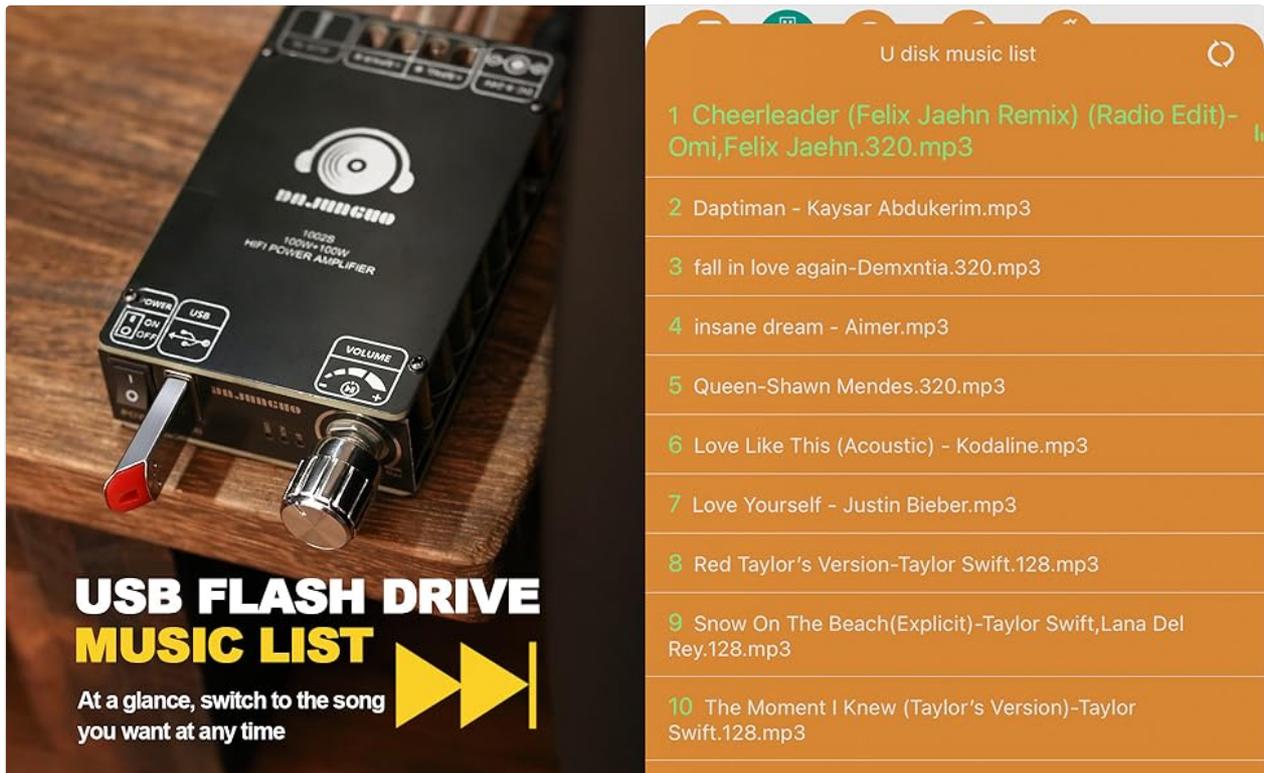


Figure 5.2: Example of a music list displayed when a USB flash drive is connected, allowing for easy song selection.

6. DIY CUSTOMIZATION

The AUGUESLD 1002S amplifier board is designed with DIY enthusiasts in mind, offering options for panel customization. You can replace the small front panel with a larger one for easier access and a different aesthetic.

6.1 Panel Replacement Steps

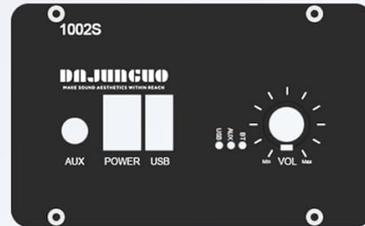
1. Take out the bottom board.
2. Drill through the pre-designated holes on the new panel.
3. Remove the small panel from the amplifier board.
4. Install the large panel onto the amplifier board.



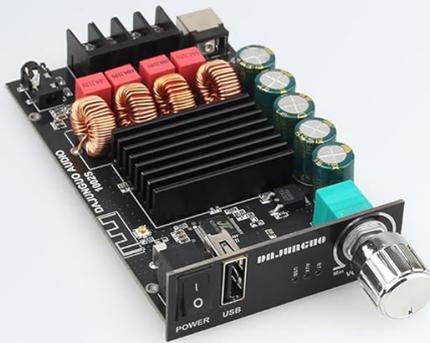
New features Simplify DIY



① Take out the bottom board



② Drill through the pre-designated holes.



③ Remove the small panel.



④ Install the large panel.

Figure 6.1: Step-by-step guide for replacing the amplifier board's small panel with a larger, custom panel.

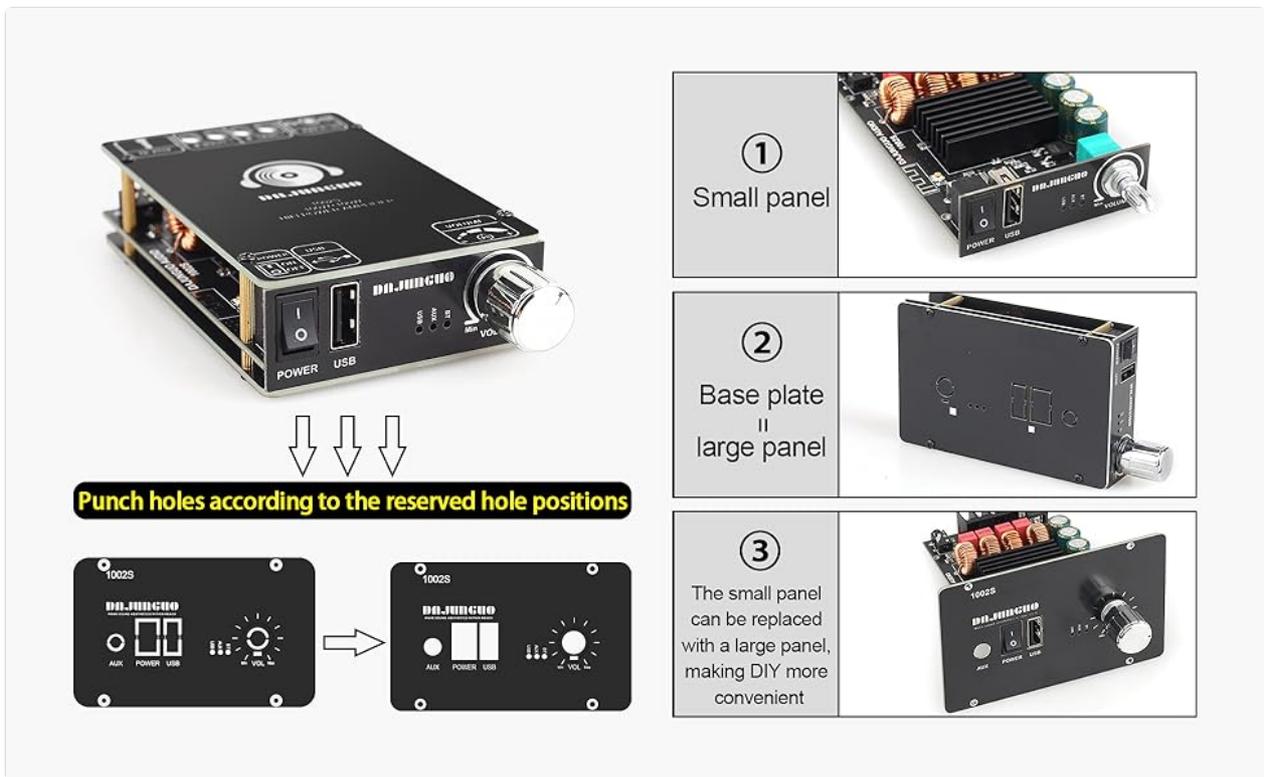


Figure 6.2: Visual guide for punching holes in the new panel according to the reserved positions for a perfect fit.

6.2 DIY Installation Video

Watch the official DIY installation video for a visual guide on customizing your amplifier board.

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Video 6.1: "1002S Amplifier Board Panel DIY" - This video demonstrates the process of disassembling the amplifier board and replacing its front panel for custom projects.

7. SPECIFICATIONS

Attribute	Detail
Model Number	1002S(100W+100W)
Chipset	Dual TPA3116D2
Channels	2.0 Stereo
Peak Power Output	100W + 100W
Voltage Input	DC 9-24V
Audio Inputs	Bluetooth, 3.5mm AUX, USB Sound Card, USB Flash Drive
Bluetooth Version	5.1
USB Decoding Formats	WAV, FLAC, APE, MP3
USB Flash Drive Format	FAT32 (≤ 32GB)
Product Dimensions (L x W x H)	5.67 x 4.17 x 1.73 inches

Attribute	Detail
Weight	5.44 ounces
Manufacturer	AUGUESLD

7.1 Power Output Table

The following table details the power output under various test conditions (1kHz).

1002S-----Test Conditions: 1khz

DC Voltage	Channel	speaker impedance	Power Output
12V	R & L	8Ω	10W+10W
		4Ω	20W+20W
21V	R & L	8Ω	25W+25W
		4Ω	50W+50W
		2Ω	100W+100W
24V	R & L	8Ω	30W+30W
		4Ω	70W+70W

1.If the speaker impedance is 2 ohms, the voltage should not exceed 21V; 20V or 19V is recommended.
2.When the input voltage is 24V, the impedance of the left and right channel speakers must be greater than or equal to 4 ohms.

Figure 7.1: Power output specifications for the 1002S amplifier board at different DC voltages and speaker impedances.

- If the speaker impedance is 2 ohms, the voltage should not exceed 21V; 20V or 19V is recommended.
- When the input voltage is 24V, the impedance of the left and right channel speakers must be greater than or equal to 4 ohms.

8. TROUBLESHOOTING

If you encounter any issues with your AUGUESLD 1002S amplifier board, please refer to the following common troubleshooting steps:

- **No Power:** Ensure the DC power supply is correctly connected and within the 9-24V range. Check the power switch position.
- **No Sound:** Verify speaker connections and polarity. Check the audio input source and ensure it's properly connected and playing. Confirm the correct input mode is selected using the multifunctional knob (4 clicks). Adjust volume.
- **Distorted Sound:** Check speaker impedance compatibility with the power output table. Ensure the input voltage is appropriate for the connected speakers. Reduce volume if distortion occurs at high levels.
- **Bluetooth Pairing Issues:** Ensure the amplifier is in Bluetooth mode (check indicator light). Turn off and on Bluetooth on your device. Perform a factory reset (5 clicks on the knob) if necessary.
- **USB Flash Drive Not Reading:** Ensure the USB flash drive is formatted to FAT32 and its size is ≤

32GB. Verify music file formats are supported (MP3, FLAC, WAV, APE).

For protection against overvoltage, overcurrent, undervoltage, clipping, short circuit, and overheating, the amplifier board includes built-in protection mechanisms.

9. MAINTENANCE

To ensure the longevity and optimal performance of your amplifier board, follow these maintenance guidelines:

- Keep the amplifier board clean and free from dust. Use a soft, dry cloth for cleaning.
- Avoid exposing the board to moisture or extreme temperatures.
- Ensure adequate ventilation around the heat sink to prevent overheating.
- Do not attempt to disassemble or repair the board beyond the specified DIY modifications unless you are a qualified technician.

10. WARRANTY AND SUPPORT

AUGUESLD provides 7*24 hour after-sales service for this product. If you have any questions or encounter quality issues, please do not hesitate to contact us. We are committed to providing satisfactory answers and solutions.

For further assistance, please visit the official AUGUESLD store or contact customer support through your purchase platform.

Manufacturer: AUGUESLD